

SUMMARY OF ERPP VOLUME II: ECOLOGICAL ZONE VISIONS

I. ECOLOGICAL PROCESSES

A. CENTRAL VALLEY STREAM FLOWS

B. NATURAL FLOODPLAIN AND FLOW PROCESSES

1. Expand floodplain area by putting 10% of leveed lands into active floodplain of the Delta.

C. CENTRAL VALLEY STREAM TEMPERATURES

D. DELTA CHANNEL HYDRAULICS

1. Restore 23,000 to 29,000 acres to tidal aquatic and freshwater marsh habitat.
2. Restore 50 to 100 miles of tidal channels in southern Yolo Bypass.

E. BAY-DELTA AQUATIC FOODWEB

II. HABITATS

A. TIDAL PERENNIAL AQUATIC

1. North: 1,500 ac (Prospect: 500 ac; Little Holland and Liberty: 1,000 ac)
2. East: 1,000 ac (areas -5 to -9 feet in elevation)
3. South: 2,000 ac " "
4. C/W: 2,500 ac " "

TOTAL: 7,000 ac

B. FRESH EMERGENT WETLAND HABITAT (TIDAL)

1. Restore 30,000 to 45,000 ac in floodplain
2. Restore 50 to 200 ac of midchannel islands and shoals in each unit ✓
3. North: Prospect, Little Holland, Liberty and tracts along Snodgrass Slough
4. East: Upper ends of dead-end sloughs
5. Restore 100 to 150 miles of small sloughs (less than 50 to 75 feet wide)

TOTAL: 30,000 to 45,000 ac

C. FRESH EMERGENT WETLAND HABITAT (NONTIDAL)

1. North: 3,000 ac (Twitchell: 1,000 ac; Yolo Bypass: 1,000 ac)
2. East: 3,000 ac (adjacent to dead-end sloughs)
3. South: 4,000 ac (floodplain overflow areas)
4. C/W: 10,000 ac

TOTAL: 20,000 ac

5. Within restored fresh emergent wetlands: Nontidal Perennial Aquatic Habitat (Ponds)
 - a. North: Shallow: 1,000 ac
 - b. East: Shallow: 300 ac; Deep: 200 ac
 - c. South: Shallow: 300 ac; Deep: 200 ac
 - d. C/W: Shallow: 500 ac; Deep: 100 ac

D. SEASONAL WETLAND HABITAT (NONTIDAL)

[Assume lands no longer available for agriculture]

1. North: Restore: 4,000 ac; Improve: 1,000 ac
 2. East: Restore: 6,000 ac; Improve: 1,000 ac
 3. C/W: Restore: 8,000 ac; Improve: 1,500 ac
 4. South: Restore: 12,000 ac; Improve: 500 ac
- TOTAL: 30,000 ac
5. Restore Deltawide: 20,000 -30,000 ac

TOTAL: 50,000 to 60,000 ac

E. RIPARIAN AND RIVERINE AQUATIC

1. South: 25 to 45 miles (different widths identified)
2. North: 10 to 15 miles (no width specified)
3. East: 8 to 15 miles (no width specified)

F. PERENNIAL GRASSLAND

1. North: 1,000 ac
2. East: 1,000 ac
3. South: 2,000 ac

TOTAL: 4,000 to 6,000 ac

G. AGRICULTURAL LANDS

Manage in partnership with private landowner: 40,000 to 74,000 ac

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Floodplain Processes

10% of ~500,000A = 50,000A
10% of 600,000 = 60,000A

Tidal ~~X~~ (plus shore) ~~7500~~

7,500A
(most all FP)
2,000 - 2500A

Non tidal

Tidal sloughs

600 - 1200A

Widened islands

50 - 200A

Tidal fresh -

30,000 - 40,000
(all FP)

Non-tidal fresh -

20,000A

Seasonal

30,000A



also flood plain - 20,000 to 30,000 - not a river

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Repaired

1000 - 1500A
(500 - 800 FP)

4 grassland

4,000 - 6,000

Ag

115,000A →

138,000A
40,000 - 25,000A



P

if flood plain
SW is deleted
→ 95,000

- 108,000